#### **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	/0/570,046
Source:	1Fw.P
Date Processed by STIC:	3/8/06
	, , , , , , , , , , , , , , , , , , , ,

## ENTERED

### CRF Errors Edited by the STIC Systems Branch

Serial N	Number: <u>/0/570,046</u>	CRF Edit Date: 3/13/09 Edited by:
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
	Corrected the SEQ ID NO. Sequence numbers of	edited were:
	Inserted or corrected a nucleic number at the en	nd of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text;	page numbers
	Inserted mandatory headings/numeric identifier	rs, specifically:
1	Moved responses to same line as heading/numer	ic identifier, specifically:
<u> </u>	Other: deleted multiple 4/107's Segs 1,3- corrected amino acid 1	renberry

Revised 09/09/2003



IFWP

RAW SEQUENCE LISTING DATE: 03/13/2006
PATENT APPLICATION: US/10/570,046 TIME: 12:46:04

Input Set : A:\PTO.AMC.txt

```
4 <110> APPLICANT: NAKAMURA, Toshikazu
             YOSHIDA, Saho
             MATSUMOTO, Kunio
     7
             ITAMI, Satoshi
             YOSHIKAWA, Kunihiko
W--> 9 <120> TITLE OF INVENTION: SKIN ULCER PREVENTIVE CURATIVE AGENT CONTAINING HUMAN
RECOMBINANT HGF
W--> 10 <130> FILE REFERENCE: K12F1393(US)
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/570,046
C--> 11 <141> CURRENT FILING DATE: 2006-03-01
W--> 11 <160> NUMBER OF SEQ ID: 3
W--> 12 <210> SEQ ID NO: 1
     13 <211> LENGTH: 723
     14 <212> TYPE: PRT
     15 <213> ORGANISM: Homo sapiens
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     20
                    20
                                         25
     21 Arg Lys Arg Arg Asn Thr Ile His Glu Phe Lys Lys Ser Ala Lys Thr
     23 Thr Leu Ile Lys Ile Asp Pro Ala Leu Lys Ile Lys Thr Lys Lys Val
                                 55
     25 Asn Thr Ala Asp Gln Cys Ala Asn Arg Cys Thr Arg Asn Lys Gly Leu
     27 Pro Phe Thr Cys Lys Ala Phe Val Phe Asp Lys Ala Arg Lys Gln Cys
                         85
                                             90
     29 Leu Trp Phe Pro Phe Asn Ser Met Ser Ser Gly Val Lys Lys Glu Phe
                                        105
                    100
     31 Gly His Glu Phe Asp Leu Tyr Glu Asn Lys Asp Tyr Ile Arg Asn Cys
                                    120
     33 Ile Ile Gly Lys Gly Arg Ser Tyr Lys Gly Thr Val Ser Ile Thr Lys
                                135
                                                    140
     35 Ser Gly Ile Lys Cys Gln Pro Trp Ser Ser Met Ile Pro His Glu His
     37 Ser Tyr Arg Gly Lys Asp Leu Gln Glu Asn Tyr Cys Arg Asn Pro Arg
                                            170
     39 Gly Glu Glu Gly Pro Trp Cys Phe Thr Ser Asn Pro Glu Val Arg
                                        185
                                                            190
                   180
     41 Tyr Glu Val Cys Asp Ile Pro Gln Cys Ser Glu Val Glu Cys Met Thr
                                    200
     43 Cys Asn Gly Glu Ser Tyr Arg Gly Leu Met Asp His Thr Glu Ser Gly
                                                    220
                                215
     44
            210
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RAW SEQUENCE LISTING DATE: 03/13/2006 PATENT APPLICATION: US/10/570,046 TIME: 12:46:04

Input Set : A:\PTO.AMC.txt

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	225		_			230					235				_	240
47 48	Leu	Pro	Glu	Arg	Tyr 245	Pro	Asp	Lys	Gly	Phe 250	Asp	Asp	Asn	Tyr	Cys 255	Arg
49 50	Asn	Pro	Asp	Gly 260	Gln	Pro	Arg	Pro	Trp 265	Cys	Tyr	Thr	Leu	Asp 270	Pro	His
	Thr	Ara	Trn		Tvr	Cvs	Δla	Tle		Thr	Cvs	Δla	Asp		Thr	Met
52			275					280					285			
53 54	Asn	Asp 290	Thr	Asp	Val	Pro	Leu 295	Glu	Thr	Thr	GIu	Cys 300	Ile	GIn	Gly	GIn
55	Gly	Glu	Gly	Tyr	Arg	Gly	Thr	Val	Asn	Thr	Ile	Trp	Asn	Gly	Ile	Pro
56	305					310					315					320
	Cys	Gln	Arg	Trp		Ser	Gln	Tyr	Pro		Glu	His	Asp	Met	Thr	Pro
58					325	_				330	_		_	_	335	_
59 60	GIu	Asn	Phe	Lys 340	Cys	Lys	Asp	Leu	Arg 345	GIu	Asn	Tyr	Cys	Arg 350	Asn	Pro
61	Asp	Gly	Ser	Glu	Ser	Pro	Trp	Cys	Phe	Thr	Thr	Asp	Pro	Asn	Ile	Arg
62			355					360					365			
63	Val	Gly	Tyr	Cys	Ser	Gln	Ile	Pro	Asn	Cys	Asp	Met	Ser	His	Gly	Gln
64		370					375					380				
65	Asp	Cys	Tyr	Arg	Gly	Asn	Gly	Lys	Asn	Tyr	Met	Gly	Asn	Leu	Ser	Gln
	385					390					395					400
67	Thr	Arg	Ser	Gly	Leu	Thr	Cys	Ser	Met	Trp	Asp	Lys	Asn	Met	Glu	Asp
68					405					410					415	
69	Leu	His	Arg	His	Ile	Phe	Trp	Glu	Pro	Asp	Ala	Ser	Lys	Leu	Asn	Glu
70				420					425					430		
71	Asn	Tyr	Cys	Arg	Asn	Pro	Asp	Asp	Asp	Ala	His	Gly	Pro	Trp	Cys	Tyr
72			435					440					445			
	Thr		Asn	Pro	Leu	Ile		Trp	Asp	Tyr	Cys		Ile	Ser	Arg	Cys
74	<b>-</b>	450		_			455					460		_		
		GLY	Asp	Thr	Thr		Thr	He	Val	Asn		Asp	His	Pro	Val	
	465	_		_	_,	470		_	_		475	_	~-3	_,	_	480
	Ser	Cys	Ala	Lys		Lys	GIn	Leu	Arg		Val	Asn	GLY	ITe	Pro	Thr
78	•	<b>m</b> ) .	•	-1.	485			**. 7	<b>a</b>	490	3	<b></b>	3	<b>3</b>	495	***
	Arg	Thr	Asn		GIY	Trp	мет	vaı		Leu	Arg	Tyr	Arg		Lys	HIS
80	<b>-</b> 1 -	<b>C</b>	<b>~</b> 1	500	0	T	<b>-1</b> -	<b>T</b>	505	0	·	77-7	*	510	77.	71
	тте	Cys	_	GIY	ser	ьeu	ire	_	GIU	ser	Trp	Val		Thr	Ala	Arg
82	~1	G	515	D	Q	7	7	520	T	7	m	<b>a</b> 1	525	TT	T 011	~1
	GIII	_	Pne	Pro	ser	Arg	_	ьeu	гуѕ	Asp	Tyr		Ala	пр	Leu	GIY
84	т1.	530	7	17n 7	11 d a	~1	535	<b>~1</b>	7	<b>~1</b>	T	540	T	C1 ~	17-7	T 011
85		HIS	Asp	val	HIS		Arg	GIY	Asp	GIU		Cys	ьys	GIII	Val	
	545	1707	C	~1 <u>~</u>	T 011	550	TT	<b>~1</b>	Dwo	C1	555	Cox	7 an	T 011	Wa I	560
	ASII	Val	ser	GIII		Val	Tyr	GIY	PIO		GIY	ser	Asp	ьеu	Val	Leu
88	Mot	T	T 011	77-	565	Drea	77.	1107	τ	570	7.00	Dho	v-1	Cor	575	т1о
	met	гуз	ьeu		Arg	PLO	ATG	val		Asp	Asp	rue	val		Thr	тте
90	7~~	T 0	Droc	580	т	C1	C	Th~	585	Dwa	C1	T ***	ሞኮ∽	590	Crrc	c~~
	Asp	neu		ASII	TAL	стА	Cys		тте	PLO	GIU	цуѕ		261	Cys	261
92	7727	Т	595	т~~	C1	π,~	ሞ⊳∽	600	T 011	т٦~	7 ~~	т	605	G1 11	Tou	LON
33	val	T A L	GTÀ	ıτb	GIA	TAL	IIII	GIA	ьeu	тте	ASII	TAL	Asp	GTÅ	Leu	₽en

60

120 180

240

300

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540

600 660

720

780

840

900 960

1020 1080

1140

1200

1260

1380

1440 1500

1560

1620

1680

1740

1800

RAW SEQUENCE LISTING DATE: 03/13/2006
PATENT APPLICATION: US/10/570,046 TIME: 12:46:04

Input Set : A:\PTO.AMC.txt

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Output Set: N:\CRF4\03132006\J570046.raw
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     97 His Arg Gly Lys Val Thr Leu Asn Glu Ser Glu Ile Cys Ala Gly Ala
                                            650
                        645
     99 Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly Asp Tyr Gly Gly Pro Leu
                                         665
     100
                     660
     101 Val Cys Glu Gln His Lys Met Arg Met Val Leu Gly Val Ile Val Pro
                 675
                                     680
                                                          685
     102
     103 Gly Arg Gly Cys Ala Ile Pro Asn Arg Pro Gly Ile Phe Val Arg Val
                                 695
     105 Ala Tyr Tyr Ala Lys Trp Ile His Lys Ile Ile Leu Thr Tyr Lys Val
     106 705
                             710
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     107 Pro Gln Ser
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     110 <211> LENGTH: 2172
     111 <212> TYPE: DNA
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     115 ctgctcccca tcgccatccc ctatgcagag ggacaaagga aaagaagaaa tacaattcat
     116 gaattcaaaa aatcagcaaa gactacccta atcaaaatag atccagcact gaagataaaa
     117 accaaaaaag tgaatactgc agaccaatgt gctaatagat gtactaggaa taaaggactt
     118 ccattcactt gcaaggcttt tgtttttgat aaagcaagaa aacaatgcct ctggttcccc
     119 ttcaatagca tgtcaagtgg agtgaaaaaa gaatttggcc atgaatttga cctctatgaa
     120 aacaaagact acattagaaa ctgcatcatt ggtaaaggac gcagctacaa gggaacagta
     121 tetateacta agagtggeat caaatgteag ceetggagtt ceatgatace acaegaacae
     122 agctatcggg gtaaagacct acaggaaaac tactgtcgaa atcctcgagg ggaagaaggg
     123 ggaccctggt gtttcacaag caatccagag gtacgctacg aagtctgtga cattcctcag
     124 tgttcagaag ttgaatgcat gacctgcaat ggggagagtt atcgaggtct catggatcat
     125 acagaatcag gcaagatttg tcagcgctgg gatcatcaga caccacaccg gcacaaattc
     126 ttgcctgaaa gatatcccga caagggcttt gatgataatt attgccgcaa tcccgatggc
     127 cagccgaggc catggtgcta tactcttgac cctcacaccc gctgggagta ctgtgcaatt
     128 aaaacatgcg ctgacaatac tatgaatgac actgatgttc ctttggaaac aactgaatgc
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     130 tgtcagcgtt gggattctca gtatcctcac gagcatgaca tgactcctga aaatttcaag
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     133 tcacatggac aagattgtta tcgtgggaat ggcaaaaatt atatgggcaa cttatcccaa
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135 atcttctggg aaccagatgc aagtaagctg aatgagaatt actgccgaaa tccagatgat

136 gatgeteatg gaecetggtg etacaeggga aateeactea tteettggga ttattgeeet 137 atttetegtt gtgaaggtga taceaeacet acaatagtea atttagaeca teeegtaata

138 tcttgtgcca aaacgaaaca attgcgagtt gtaaatggga ttccaacacg aacaaacata

139 ggatggatgg ttagtttgag atacagaaat aaacatatct gcggaggatc attgataaag 140 gaqagttggg ttcttactgc acgacagtgt ttcccttctc gagacttgaa agattatgaa

141 gcttggcttg gaattcatga tgtccacgga agaggagatg agaaatgcaa acaggttctc

142 aatgtttccc agctggtata tggccctgaa ggatcagatc tggttttaat gaagcttgcc

143 aggcctgctg tcctggatga ttttgttagt acgattgatt tacctaatta tggatgcaca

RAW SEQUENCE LISTING DATE: 03/13/2006 PATENT APPLICATION: US/10/570,046 TĪME: 12:46:04

Input Set : A:\PTO.AMC.txt

```
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                                                                              1920
                                                                              1980
     146 catcgaggga aggtgactct gaatgagtct gaaatatgtg ctggggctga aaagattgga
     147 tcaggaccat gtgaggggga ttatggtggc ccacttgttt gtgagcaaca taaaatgaga
                                                                              2040
     148 atggttcttg gtgtcattgt tcctggtcgt ggatgtgcca ttccaaatcg tcctggtatt
                                                                              2100
                                                                              2160
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     155 <213> ORGANISM: Homo sapiens
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                      20
                                          25
     161 Arg Lys Arg Arg Asn Thr Ile His Glu Phe Lys Lys Ser Ala Lys Thr
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     163 Thr Leu Ile Lys Ile Asp Pro Ala Leu Lys Ile Lys Thr Lys Lys Val
                                  55
     165 Asn Thr Ala Asp Gln Cys Ala Asn Arg Cys Thr Arg Asn Lys Gly Leu
     166
         65
     167 Pro Phe Thr Cys Lys Ala Phe Val Phe Asp Lys Ala Arg Lys Gln Cys
                          85
                                              90
     169 Leu Trp Phe Pro Phe Asn Ser Met Ser Ser Gly Val Lys Lys Glu Phe
                                         105
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     171 Gly His Glu Phe Asp Leu Tyr Glu Asn Lys Asp Tyr Ile Arg Asn Cys
                                     120
     173 Ile Ile Gly Lys Gly Arg Ser Tyr Lys Gly Thr Val Ser Ile Thr Lys
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     174
             130
     175 Ser Gly Ile Lys Cys Gln Pro Trp Ser Ser Met Ile Pro His Glu His
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     177 Ser Phe Leu Pro Ser Ser Tyr Arg Gly Lys Asp Leu Gln Glu Asn Tyr
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                         165
     179 Cys Arg Asn Pro Arg Gly Glu Glu Gly Pro Trp Cys Phe Thr Ser
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                     180
     181 Asn Pro Glu Val Arg Tyr Glu Val Cys Asp Ile Pro Gln Cys Ser Glu
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                 195
     183 Val Glu Cys Met Thr Cys Asn Gly Glu Ser Tyr Arg Gly Leu Met Asp
                                                      220
                                 215
     185 His Thr Glu Ser Gly Lys Ile Cys Gln Arg Trp Asp His Gln Thr Pro
                             230
                                                 235
     187 His Arg His Lys Phe Leu Pro Glu Arg Tyr Pro Asp Lys Gly Phe Asp
                         245
                                             250
     189 Asp Asn Tyr Cys Arg Asn Pro Asp Gly Gln Pro Arg Pro Trp Cys Tyr
                                         265
     191 Thr Leu Asp Pro His Thr Arg Trp Glu Tyr Cys Ala Ile Lys Thr Cys
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                                     280
     193 Ala Asp Asn Thr Met Asn Asp Thr Asp Val Pro Leu Glu Thr Thr Glu
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RAW SEQUENCE LISTING DATE: 03/13/2006 PATENT APPLICATION: US/10/570,046 TIME: 12:46:04

Input Set : A:\PTO.AMC.txt

194   290   295   300   310   315   320   320   325   320   325   320																		
196   305				290					295		_	_		300		_		
197   Try			_	Ile	Gln	Gly	Gln	_	Glu	Gly	Tyr	Arg	-	Thr	Val	Asn	Thr	
198																		
199   His   Asp   Met   Thr   Pro   Glu   Asn   Pro   Lys   Cys   Lys   Asp   Leu   Arg   Glu   Asn   200	1	97	$\mathtt{Trp}$	Asn	Gly	Ile	Pro	Cys	Gln	Arg	$\mathtt{Trp}$	Asp	Ser	Gln	Tyr	Pro	His	Glu
200	1	98					325					330					335	
Tyr	1	99	His	As.p	Met	Thr	Pro	Glu	Asn	Phe	Lys	Cys	Lys	Asp	Leu	Arg	Glu	Asn
202	2	00				340				•	345					350		
203   Asp   Pro   Asn   Ile   Arg   Val   Gly   Tyr   Cys   Ser   Gln   Ile   Pro   Asn   Cys   Asp   204   370   375   375   380   380   370   375   380   380   380   380   390   395   400	2	01	Tyr	Cys	Arg	Asn	Pro	Asp	Gly	Ser	Glu	Ser	Pro	Trp	Cys	Phe	Thr	Thr
204	2	02			355					360					365			
Met Ser His Gly Gln Asp Cys Tyr Arg Gly Asn Gly Lys Asn Tyr Met 206 385	2	03	Asp	Pro	Asn	Ile	Arg	Val	Gly	Tyr	Cys	Ser	Gln	Ile	Pro	Asn	Cys	Asp
206   385	2	04	_	370			_		375					380				
206   385	2	05	Met	Ser	His	Gly	Gln	Asp	Cys	Tyr	Arq	Gly	Asn	Gly	Lys	Asn	Tyr	Met
208						•			-	-		-		-	-		_	
208	2	07	Glv	Asn	Leu	Ser	Gln	Thr	Arq	Ser	Glv	Leu	Thr	Cvs	Ser	Met	Trp	qaA
1			4						,		4			-			_	-
210			Lvs	Asn	Met	Glu	Asp	Leu	His	Ara	His	Ile	Phe	Trp	Glu	Pro	Asp	Ala
211 Ser Lys Leu Asn Glu Asn Tyr Cys Arg Asn Pro Asp Asp Asp Asp Ala His 212			-1-							5								
212			Ser	Lvs	Len		Glu	Asn	Tvr	Cvs	_	Asn	Pro	Asp	Asp		Ala	His
Signature   Sign			501	_,_			014		-1-	_	3					1101		
214			Glv	Pro		Cvs	Tur	Thr	Glv		Pro	T.e11	Tle	Pro		Asn	Tyr	Cvs
115			OLY		115	Cyb	-7-	1111	_	21011	110	ыси	110			1101	- 1 -	Cyb
148			Dro		Sar	Λrα	Cvc	Glu		Acn	Thr	Thr	Dro		Tla	Val	Aen	T.011
217				116	SCI	Arg	Суз		Gry	тор	1111	1111		1111	116	Val	ASII	
218				n; c	Dro	1727	Tla		Cvc	712	Tuc	Thr		Cln	Lou	Λrα	Va 1	
19			Asp	птэ	PIO	vai		261	Cys	АТА	цуъ		пуз	GIII	пеп	Arg		vai
220         Tyr         Arg         Asn         Lys         His         Ile         Cys         Gly         Gly         Ser         Leu         Ile         Lys         Glu         Ser         Trp           222			7	<b>~1</b>	т1.	Dwa		7. ~~~	mb ~	7 ~~	71.		Пхх	Mot	1707	Cox		7 ~~
221         Tyr         Arg         Asn         Lys         His         Ile         Cys         Gly         Ser         Leu         Ile         Lys         Alu         Ser         Tyr         Alu         Arg         Gln         Cys         Phe         Pro         Ser         Arg         Asp         Leu         Lys         Asp         Tyr           224         530         Tyr         535         Tyr         540         Tyr         540         Tyr         560         Tyr         520         Tyr         540         Tyr         Asp         Ilu         Lys         Asp         Ilu         Lys         550         Tyr         Tyr         550         Tyr         555         Tyr         560         Tyr         560         Tyr         560         Tyr         560         Tyr         560         Tyr         560         Tyr         575         Tyr         575         Tyr         560         Tyr         560         Tyr         560         Tyr         575			ASII	Gry	116		1111	Arg	1111	ASII		GIY	тър	Mec	vai		цец	Arg
222       515       520       525       525         223       Val       Leu       Thr       Ala       Arg       Gln       Cys       Phe       Pro       Ser       Arg       Asp       Leu       Lys       Asp       Tyr         224       530       630       535       535       540       550       550       555       555       550       560       560       560       550       5			П	7	7		***	<b>T</b> 1_	G	<b>a</b> 1		0	T	T1_	T		C	m
223         Val         Leu         Thr         Ala         Arg         Gln         Cys         Phe         Pro         Ser         Arg         Asp         Leu         Sap         Tyr         Sap         Leu         Leu         Lys         Sap         Sap         Val         His         Gly         Arg         Gly         Asp         Gly         Lys         Gly         Lys         Sap         Val         His         Gly         Arg         Gly         Asp         Gly         Lys         Gly         Lys         Gly         Lys         Gly         Lys         Gly         Lys         Gly         Lys         Gly         Gly         Rys         Gly         Gly         Rys         Gly         Gly         Rys         Asp         Asp <td></td> <td></td> <td>ıyı</td> <td>Arg</td> <td></td> <td>ьуѕ</td> <td>HIS</td> <td>тте</td> <td>Cys</td> <td>_</td> <td>GIY</td> <td>ser</td> <td>ьеu</td> <td>116</td> <td>_</td> <td>GIU</td> <td>ser</td> <td>пр</td>			ıyı	Arg		ьуѕ	HIS	тте	Cys	_	GIY	ser	ьеu	116	_	GIU	ser	пр
224       530       535       540         225       Glu Ala       Trp Leu Gly Ile His Asp Val His Gly Arg Gly Asp Glu Lys         226       545       550       555       555       560         227       Cys Lys Gln Val Leu Asn Val Ser Gln Leu Val Tyr Gly Pro Glu Gly       565       570       770 <td< td=""><td></td><td></td><td>77-7</td><td>T</td><td></td><td>77-</td><td>7</td><td><b>~1</b></td><td><b>~</b></td><td></td><td>D</td><td>C</td><td>7</td><td>7</td><td></td><td>T</td><td>7</td><td>Ш- ess</td></td<>			77-7	T		77-	7	<b>~1</b>	<b>~</b>		D	C	7	7		T	7	Ш- ess
225       Glu       Ala       Trp       Leu       Gly       Ile       His       Asp       Val       His       Gly       Arg       Gly       Asp       Glu       Lys       560       227       Cys       Lys       Gln       Val       Leu       Asn       Val       Ser       Gln       Leu       Val       Leu       Asp       Yal       Yal       Pro       Asp       Pro       Asp       Pro       Asp       Asp       Pro       Asp       A			vai		Thr	Ala	Arg	GIN	_	Pne	Pro	ser	Arg	_	Leu	ьys	Asp	TYL
226       545       550       555       556       560       227       Cys       Lys       Gln       Val       Leu       Asn       Val       Ser       Gln       Leu       Val       Tyr       Gly       Pro       Glu       Gly       Asp       A			<b>~</b> 1		<b></b>	<b>.</b>	<b>a</b> 3	<b>-</b> 1.			**- 7	***	<b>~1</b>	-	<b>~1</b>		<b>61</b>	T
227         Cys         Lys         Gln         Val         Leu         Asn         Val         Ser         Gln         Leu         Val         Tyr         Gly         Pro         Glu         Gly           228         565         565         570         570         575         575           229         Ser         Asp         Leu         Met         Lys         Leu         Ala         Arg         Pro         Ala         Val         Leu         Asp         Asp           230         580         600         585         590				Ala	Trp	ьeu	GIY		HIS	Asp	vai	HIS	_	Arg	GIY	Asp	GIU	
228       Ser Asp Leu Val Leu Met Lys Leu Ala Arg Pro Ala Val Leu Asp Asp         229       Ser Asp Leu Val Leu Met Lys Leu Ala Arg Pro Ala Val Leu Asp Asp         230       580       580       585       585       590       590         231       Phe Val Ser Thr Ile Asp Leu Pro Asn Tyr Gly Cys Thr Ile Pro Glu       605       605       605       605         233       Lys Thr Ser Cys Ser Val Tyr Gly Trp Gly Trp Gly Tyr Thr Gly Leu Ile Asn       615       620       620       620       620       620         234       610       610       Leu Arg Val Ala His Leu Tyr Gly Val Ala His Leu Tyr Ile Met Gly Asn Glu       640         235       Tyr Asp Gly Ser Gln His His Arg Gly Lys Val Thr Leu Asn Glu Asn Glu       640         237       Lys Cys Ser Gln His His Arg Gly Lys Val Thr Leu Asn Glu Asn Glu       655         238       Lys Cys Ala Gly Ala Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly Asp         240       650       650         241       Tyr Gly Gly Pro Leu Val Cys Glu Glu Gln His Lys Ket Arg Met Val Leu				_	~1		_	-		_	<b>~</b> 3	_			~1	_	~1	
229       Ser Asp Leu Val Leu Val Leu Met Lys Leu Ala Arg Pro Ala Val Leu Asp Asp Asp 230         230       580       580       585       585       590       5			Cys	ьys	GIN	vai		Asn	vai	ser	GIn		vai	Tyr	GIY	Pro		GLY
230       580       585       590       590       591       5			_	_	_				_	_		_	_		,	_		_
231 Phe Val Ser Thr Ile Asp Leu Pro Asn Tyr Gly Cys Thr Ile Pro Glu 232			ser	Asp	Leu		Leu	Met	Lys	Leu		Arg	Pro	Ala	vai		Asp	Asp
232				_										_			_	
233 Lys Thr Ser Cys Ser Val Tyr Gly Trp Gly Tyr Thr Gly Leu Ile Asn 613			Phe	Val		Thr	Ile	Asp	Leu		Asn	Tyr	Gly	Cys		Ile	Pro	Glu
234 610 625 625 626 627 630 630 645 645 645 650 650 650 650 650 650 650 650 650 65												_		_			_	
235 Tyr Asp Gly Leu Leu Arg Val Ala His Leu Tyr Ile Met Gly Asn Glu 236 625			Lys		Ser	Cys	Ser	Val		Gly	Trp	Gly	Tyr		Gly	Leu	Ile	Asn
236 625 630 630 635 640 237 Lys Cys Ser Gln His His Arg Gly Lys Val Thr Leu Asn Glu Ser Glu 238 650 655 655 239 Ile Cys Ala Gly Ala Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly Asp 240 660 665 665 670 241 Tyr Gly Gly Pro Leu Val Cys Glu Gln His Lys Met Arg Met Val Leu																		
237 Lys Cys Ser Gln His His Arg Gly Lys Val Thr Leu Asn Glu Ser Glu 238	2	35	Tyr	Asp	Gly	Leu	Leu	_	Val	Ala	His	Leu		Ile	Met	Gly	Asn	Glu
238 645 650 655 239 Ile Cys Ala Gly Ala Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly Asp 240 660 665 670 241 Tyr Gly Gly Pro Leu Val Cys Glu Gln His Lys Met Arg Met Val Leu																		
239 Ile Cys Ala Gly Ala Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly Asp 240 660 665 670 241 Tyr Gly Gly Pro Leu Val Cys Glu Gln His Lys Met Arg Met Val Leu	2	37	Lys	Cys	Ser	Gln	His	His	Arg	Gly	Lys	Val	Thr	Leu	Asn	Glu	Ser	Glu
240 660 665 670 241 Tyr Gly Gly Pro Leu Val Cys Glu Gln His Lys Met Arg Met Val Leu	2	38					645					650					655	
241 Tyr Gly Gly Pro Leu Val Cys Glu Gln His Lys Met Arg Met Val Leu	2	39	Ile	Cys	Ala	Gly	Ala	Glu	Lys	Ile	Gly	Ser	Gly	Pro	Cys	Glu	Gly	Asp
	2	40				660					665					670		
242 675 680 685	2	41	Tyr	Gly	Gly	Pro	Leu	Val	Cys	Glu	Gln	His	Lys	Met	Arg	Met	Val	Leu
	2	42			675					680					685			

VERIFICATION SUMMARYDATE: 03/13/2006PATENT APPLICATION: US/10/570,046TIME: 12:46:05

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\03132006\J570046.raw

L:9 M:283 W: Missing Blank Line separator, <120> field identifier
L:10 M:283 W: Missing Blank Line separator, <130> field identifier
L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:11 M:283 W: Missing Blank Line separator, <160> field identifier
L:12 M:283 W: Missing Blank Line separator, <210> field identifier
L:16 M:283 W: Missing Blank Line separator, <400> field identifier
L:113 M:283 W: Missing Blank Line separator, <400> field identifier
L:156 M:283 W: Missing Blank Line separator, <400> field identifier

# Raw Sequence Listing before editing (for reference only)



**IFWP** 

```
RAW SEQUENCE LISTING
                                                            DATE: 03/08/2006
                    PATENT APPLICATION: US/10/570,046 TIME: 13:20:02
                  Input Set : A:\PTO.KD.txt
                    Output Set: N:\CRF4\03072006\J570046.raw
      4 <110 > APPLICANT: NAKAMURA, Toshikazu
     5 <110> APPLICANT: YOSHIDA, Saho
W--> <sup>/</sup>6 <del><110></del> APPLICANT: MATSUMOTO, Kunio
W--> 7 <110> APPLICANT: ITAMI, Satoshi
W--> 8 <110> APPLICANT: YOSHIKAWA, Kunihiko
W--> 9 <120> TITLE OF INVENTION: SKIN ULCER PREVENTIVE CURATIVE AGENT CONTAINING HUMAN
RECOMBINANT HGF
W--> 10 <130> FILE REFERENCE: K12F1393 (US)
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/570,046
C--> 11 <141> CURRENT FILING DATE: 2006-03-01
W--> 11 <160> NUMBER OF SEQ ID: 3
                                                         Does Not Comply
                                                         Corrected Diskette Needed
ERRORED SEQUENCES
W--> 12 <210> SEQ ID NO: 1
    13 <211> LENGTH: 723
    14 <212> TYPE: PRT
    15 <213> ORGANISM: Homo sapiens
W--> 16 <400> SEQUENCE: 1
    17 Met Trp Val Thr Lys Leu Leu Pro Ala Leu Leu Gln His Val Leu
                         5
                                             10
    19 Leu His Leu Leu Leu Pro Ile Ala Ile Pro Tyr Ala Glu Gly Gln
    21 Arg Lys Arg Arg Asn Thr Ile His Glu Phe Lys Lys Ser Ala Lys Thr
                                     40
    23 Thr Leu Ile Lys Ile Asp Pro Ala Leu Lys Ile Lys Thr Lys Lys Val
                                 55
    25 Asn Thr Ala Asp Gln Cys Ala Asn Arg Cys Thr Arg Asn Lys Gly Leu
                           70
    27 Pro Phe Thr Cys Lys Ala Phe Val Phe Asp Lys Ala Arg Lys Gln Cys
    29 Leu Trp Phe Pro Phe Asn Ser Met Ser Ser Gly Val Lys Lys Glu Phe
                  100
                                        105
    31 Gly His Glu Phe Asp Leu Tyr Glu Asn Lys Asp Tyr Ile Arg Asn Cys
                                   120
    33 Ile Ile Gly Lys Gly Arg Ser Tyr Lys Gly Thr Val Ser Ile Thr Lys
```

35 Ser Gly Ile Lys Cys Gln Pro Trp Ser Ser Met Ile Pro His Glu His

37 Ser Tyr Arg Gly Lys Asp Leu Gln Glu Asn Tyr Cys Arg Asn Pro Arg

39 Gly Glu Glu Gly Gly Pro Trp Cys Phe Thr Ser Asn Pro Glu Val Arg

185

155

170

150

180

RAW SEQUENCE LISTING DATE: 03/08/2006 PATENT APPLICATION: US/10/570,046 TIME: 13:20:02

Input Set : A:\PTO.KD.txt

41	Tyr	Glu	Val	Cys	Asp	Ile	Pro	Gln	Cys	Ser	Glu	Val	Glu	Cys	Met	Thr
42			195					200					205			
	Cys		Gly	Glu	Ser	Tyr	Arg	Gly	Leu	Met	Asp		Thr	Glu	Ser	Gly
44 45	Lvs	210 Tle	Cvs	Gln	Ara	Trn	215 Asp	Hic	Gln	Thr	Pro	220 Hic	Δτα	Hic	Lare	Dhe
	225		Cyb	0111	**** 9	230	пър	*****	0111	1111	235		n-9	1113	цуз	240
47	Leu	Pro	Glu	Arg	Tyr	Pro	Asp	Lys	Gly	Phe	Asp	Asp	Asn	Tyr	Cys	Arg
48					245					250					255	
49 50	Asn	Pro	Asp	Gly 260	Gln	Pro	Arg	Pro	Trp 265	Cys	Tyr	Thr	Leu	Asp 270	Pro	His
51	Thr	Arg	Trp	Glu	Tyr	Cys	Ala	Ile	Lys	Thr	Cys	Ala	Asp	Asn	Thr	Met
52			275					280					285			
	Asn	_	Thr	Asp	Val	Pro	Leu	Glu	Thr	Thr	Glu	-	Ile	Gln	Gly	Gln
54 55	Glv	290 Glu	Glv	Тъгъ	Δνα	Glv	295 Thr	17 = 1	Λαn	Thr	Tla	300	Λcn	G1 v	Tla	Dro
	305	GIU	GLY	TYT	AT 9	310	1111	vai	ASII	1111	315	пр	ASII	Gry	116	320
		Gln	Arg	Trp	Asp		Gln	Tyr	Pro	His		His	Asp	Met	Thr	
58					325					330					335	
	Glu	Asn	Phe		Cys	Lys	Asp	Leu	_	Glu	Asn	Tyr	Cys	_	Asn	Pro
60	7 000	C1	Com	340	Com	Dwo	(T)=0=0	0	345	ml <sub>a sa</sub>	m16	7	D	350	T1_	7
62	Asp	GIY	355	GIU	ser	PIO	Trp	360	Pne	IIII	THE	Asp	365	ASII	TTE	Arg
	Val	Gly		Cys	Ser	Gln	Ile		Asn	Cvs	Asp	Met		His	Glv	Gln
64		370	•	•			375			- 2		380			2	
65	Asp	Cys	Tyr	Arg	$\operatorname{Gly}$	Asn	Gly	Lys	Asn	Tyr	Met	Gly	Asn	Leu	Ser	Gln
	385	_			_	390	_	_			395					400
67 68	Thr	Arg	Ser	GIY		Thr	Cys	Ser	Met		Asp	Lys	Asn	Met		Asp
	Len	His	Ara	His	405 Tle	Phe	Trp	G111	Pro	410	Δla	Ser	Lve	T.e.11	415	Gl 11
70			9	420				014	425	тор	mu	DCI	цуБ	430	ASII	GIU
71	Asn	Tyr	Cys	Arg	Asn	Pro	Asp	Asp	Asp	Ala	His	Gly	Pro	Trp	Cys	Tyr
72			435					440					445			
	Thr		Asn	Pro	Leu	Ile	Pro	Trp	Asp	Tyr	Cys		Ile	Ser	Arg	Cys
74 75	Glu	450	Λαn	Thr	Thr	D×o	455 Thr	T10	17 a 1	7 02	T 011	460	uic	Dwo	17a T	т10
	465	GLy	чэр	1111	1111	470	1111	116	vai	YOU	475	Азр	птъ	PIO	vai	480
		Cys	Ala	Lys	Thr		Gln	Leu	Arg	Val	Val	Asn	Gly	Ile	Pro	
78					485					490			_		495	
	Arg	Thr				${\tt Trp}$	Met	Val	Ser	Leu	Arg	Tyr	Arg	Asn	Lys	His
80		_		500		_		_	505	_	<u>.</u>		_	510		_
	TIE	Cys		GLY	Ser	Leu	Ile		GIu	Ser	Trp	Val		Thr	Ala	Arg
82 83	Gln	Cve	515 Phe	Pro	Ser	Δνα	Asp	520	Lare	Acn	Тиг	Glu	525 Ala	Trn	T. 211	Glv
84	Q.1.1.	530	1110	110	DCI	nig	535	пец	цуз	дар	TYT	540	AIG	тър	пец	GIY
	Ile		Asp	Val	His	Gly	Arg	Gly	Asp	Glu	Lys		Lys	Gln	Val	Leu
	545		-			550		•	•		555	-	•			560
	Asn	Val	Ser	Gln		Val	Tyr	Gly	Pro	Glu	Gly	Ser	Asp	Leu	Val	Leu
88		_	_		565	_			_	570	_				575	
89	Met	ГÀЗ	Leu	Ala	Arg	Pro	Ala	Val	Leu	Asp	Asp	Phe	Val	Ser	Thr	Ile

RAW SEQUENCE LISTING DATE: 03/08/2006
PATENT APPLICATION: US/10/570,046 TIME: 13:20:02

Input Set : A:\PTO.KD.txt

```
580
     90
                                     585
    91 Asp Leu Pro Asn Tyr Gly Cys Thr Ile Pro Glu Lys Thr Ser Cys Ser
    92 595 600
    93 Val Tyr Gly Trp Gly Tyr Thr Gly Leu Ile Asn Tyr Asp Gly Leu Leu
                              615
    95 Arg Val Ala His Leu Tyr Ile Met Gly Asn Glu Lys Cys Ser Gln His
                          630
    97 His Arg Gly Lys Val Thr Leu Asn Glu Ser Glu Ile Cys Ala Gly Ala
                      645
                                         650
    99 Glu Lys Ile Gly Ser Gly Pro Cys Glu Gly Asp Tyr Gly Gly Pro Leu
                  660
                                      665
    101 Val Cys Glu Gln His Lys Met Arg Met Val Leu Gly Val Ile Val Pro
        675
E--> 102
                       68£0
    103 Gly Arg Gly Cys Ala Ile Pro Asn Arg Pro Gly Ile Phe Val Arg Val
    104 690 695
                                         700
    105 Ala Tyr Tyr Ala Lys Trp Ile His Lys Ile Ile Leu Thr Tyr Lys Val
    106 705
                         710
    107 Pro Gln Ser
    152 <210> SEQ ID NO: 3
    153 <211> LENGTH: 728
    154 <212> TYPE: PRT
    155 <213> ORGANISM: Homo sapiens
W--> 156 <400> SEQUENCE: 3
    157 Met Trp Val Thr Lys Leu Leu Pro Ala Leu Leu Gln His Val Leu
                                          10
    159 Leu His Leu Leu Leu Pro Ile Ala Ile Pro Tyr Ala Glu Gly Gln
                   20
    161 Arg Lys Arg Arg Asn Thr Ile His Glu Phe Lys Lys Ser Ala Lys Thr
                                   40
    163 Thr Leu Ile Lys Ile Asp Pro Ala Leu Lys Ile Lys Thr Lys Lys Val
                               55
    165 Asn Thr Ala Asp Gln Cys Ala Asn Arg Cys Thr Arg Asn Lys Gly Leu
                            70
    167 Pro Phe Thr Cys Lys Ala Phe Val Phe Asp Lys Ala Arg Lys Gln Cys
                        85
                                           90
    169 Leu Trp Phe Pro Phe Asn Ser Met Ser Ser Gly Val Lys Lys Glu Phe
                   100
                                      105
    171 Gly His Glu Phe Asp Leu Tyr Glu Asn Lys Asp Tyr Ile Arg Asn Cys
    172 115
                                  120
    173 Ile Ile Gly Lys Gly Arg Ser Tyr Lys Gly Thr Val Ser Ile Thr Lys
                               135
    175 Ser Gly Ile Lys Cys Gln Pro Trp Ser Ser Met Ile Pro His Glu His
                           150
                                              155
    177 Ser Phe Leu Pro Ser Ser Tyr Arg Gly Lys Asp Leu Gln Glu Asn Tyr
                       165
                                          170
    179 Cys Arg Asn Pro Arg Gly Glu Glu Gly Pro Trp Cys Phe Thr Ser
                                      185
    181 Asn Pro Glu Val Arg Tyr Glu Val Cys Asp Ile Pro Gln Cys Ser Glu
               195
                                  200
```

RAW SEQUENCE LISTING DATE: 03/08/2006
PATENT APPLICATION: US/10/570,046 TIME: 13:20:02

Input Set : A:\PTO.KD.txt

	Val		Cys	Met	Thr	Cys	Asn	Gly	Glu	Ser	Tyr	-	Gly	Leu	Met	Asp
184		210			_		215		_			220				
185	His	Thr	Glu	Ser	Gly	Lys	Ile	Cys	Gln	Arg	Trp	Asp	His	Gln	Thr	Pro
	225					230					235					240
187	His	Arg	His	Lys	Phe	Leu	Pro	Glu	Arg	Tyr	Pro	Asp	Lys	Gly	Phe	Asp
188					245					250					255	
	Asp	Asn	Tyr	_	Arg	Asn	Pro	Asp	_	Gln	Pro	Arg	Pro	Trp	Cys	$\mathtt{Tyr}$
190				260					265					270		
191	Thr	Leu	Asp	Pro	His	Thr	Arg	Trp	Glu	Tyr	Cys	Ala	Ile	Lys	Thr	Cys
192			275					280					285			
	Ala	_	Asn	Thr	Met	Asn	Asp	Thr	Asp	Val	Pro	Leu	Glu	Thr	Thr	Glu
194		290		_	_		295					300				
		Ile	Gln	Gly	Gln		Glu	Gly	Tyr	Arg		Thr	Val	Asn	Thr	Ile
	305					310					315					320
	Trp	Asn	Gly	Ile		Cys	Gln	Arg	Trp	_	Ser	Gln	Tyr	Pro		Glu
198					325					330					335	
	His	Asp	Met		Pro	Glu	Asn	Phe	_	Cys	Lys	Asp	Leu	_	Glu	Asn
200	_	_	_	340				_	345					350	_	_
	Tyr	Cys	_	Asn	Pro	Asp	Gly		Glu	Ser	Pro	Trp	-	Phe	Thr	Thr
202	_	_	355					360				_	365			
	Asp		Asn	Ile	Arg	Val	Gly	Tyr	Cys	Ser	Gln		Pro	Asn	Cys	Asp
204		370	•				375					380				
		Ser	His	Gly	Gln		Cys	Tyr	Arg	Gly		Gly	Lys	Asn	Tyr	
	385	_	_	_		390	_	_		_	395	_				400
	GIY	Asn	Leu	Ser		Thr	Arg	Ser	GLY		Thr	Cys	Ser	Met	_	Asp
208	_	_			405	_		_		410					415	
	ьys	Asn	Met		Asp	Leu	His	Arg		He	Phe	Trp	Glu		Asp	Ala
210	•	_	_	420	~-	_	_	_	425	_0	_	_	_	430		•
	ser	гÀг		Asn	GIU	Asn	Tyr		Arg	Asn	Pro	Asp		Asp	Ala	HIS
212	<b>a</b> 1	D	435	<b>G</b>	m	m1.	<b>~</b> 1	440	_				445	_	_	_
	GIY		Trp	Cys	Tyr	Thr	Gly	Asn	Pro	ьeu	ше		Trp	Asp	Tyr	Cys
214	Dwo	450	Com	7	O	<b>~1</b>	455	7	mle ee	mla sa	D	460	T7 -	**- 7	7	T
		TTE	ser	Arg	Cys		Gly	Asp	THE	THE		THE	тте	vai	Asn	
	465	TT	Dece	17- T	T1_	470	a	77-	T	mb	475	<b>~1</b>	T	3	77-7	480
218	Asp	птр	PLO	vai		ser	Cys	Ald	ьуѕ		ьуѕ	GIII	ьeu	Arg		vai
	7 ~~	~1··	т1.	Drea	485	7	mb	7. ~ ~	т1.	490	Шест	M	17- I		495	7
220	ASII	GIY	TIE		IIII	Arg	Thr	ASII		GIA	ттр	мес	vaı		Leu	Arg
	Тче	7 ~~~	7 cn	500	uic	Tla	Crea	~1	505	Cox	T 011	T10	T	510	Cox	Шжэ
222	тĂТ	Arg	515	цуб	пто	116	Cys	_	Gry	ser	ьeu	116	_	GIU	Ser	пр
	Val	T 011		71-	7~~	C1 ~	C	520 Dho	Dree	Com	7. 20.00	7 ~~	525	T	7	TT= ===
224	vai		TIIL	Ala	Arg	GIII	Cys	Pne	PIO	ser	Arg		ьeu	ьys	Asp	TYL
	Glu.	530	Tran	T 011	C1++	Tla	535 His	7 ~~	1701	uia	~1	540	C1	7	~1	T
226		Ala	пр	neu	Gry		nis	Asp	vaı	nis	_	Arg	GIY	Asp	GIU	
		Lve	Gl n	v-1	Len	550	v-1	C ~ ~	G1 ~	Lou	555 Val	Ф	C1	Dro	C1	560
228	Cys	пур	GIII	val		Wall	Val	26T	GIII		val	TAT	GTĀ	PIO		GIÀ
	Ser	λc∽	Len	1727	565	Mo+	T 110	T 011	~ ות	570	Dro	7 T ~	17 ~ T	τ	575	7 am
230	PGT	voh	neu		₽€u	rie L	Lys	ъси		Arg	FIO	WIG	val		Asp	Авр
	Dha	17 = 1	Co~	580	т1 ^	7 ~~	T 011	Dro	585	Пч •••	G1	Crea	መኮ~	590	Dro	C1
Z J I	LII6	vai	oer.	TIIT	TTG	ush	Leu	PLO	ASII	TAL	GT Å.	cys	TIII	тте	PLO	GIU

RAW SEQUENCE LISTING

DATE: 03/08/2006

PATENT APPLICATION: US/10/570,046

TIME: 13:20:02

Input Set : A:\PTO.KD.txt

	232			595					600					605			
	233	Lys	Thr	Ser	Cys	Ser	Val	Tyr	Gly	Trp	Gly	Tyr	Thr	Gly	Leu	Ile	Asn
	234		610					615					620				
	235	Tyr	Asp	Gly	Leu	Leu	Arg	Val	Ala	His	Leu	Tyr	Ile	Met	Gly	Asn	Glu
	236	625					630					635					640
	237	Lys	Cys	Ser	Gln	His	His	Arg	Gly	Lys	Val	Thr	Leu	Asn	Glu	Ser	Glu
	238					645					650					655	
	239	Ile	Cys	Ala	Gly	Ala	Glu	Lys	Ile	Gly	Ser	Gly	Pro	Cys	Glu	Gly	Asp
	240				660					665					670		
	241	Tyr	Gly	Gly	Pro	Leu	Val	Cys	Glu	Gln	His	Lys	Met	Arg	Met	Val	Leu
E>	242			675					68 <b>5</b> 5	)		•		685			
	243	Gly	Val	Ile	Val	Pro	Gly	Arg	Gly	Cys	Ala	Ile	${\tt Pro}$	Asn	Arg	Pro	Gly
	244		690					695					700				
	245	Ile	Phe	Val	Arg	Val	Ala	Tyr	Tyr	Ala	Lys	Trp	Ile	His	Lys	Ile	Ile
	246	705					710					715					720
	247	Leu	Thr	Tyr	Lys	Val	Pro	Gln	Ser								
	248					725											

#### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/570,046

DATE: 03/08/2006 TIME: 13:20:03

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\03072006\J570046.raw

L:5 M:280 W: Numeric Identifier already exists, <110> found multiple times
L:6 M:280 W: Numeric Identifier already exists, <110> found multiple times
L:7 M:280 W: Numeric Identifier already exists, <110> found multiple times
L:8 M:280 W: Numeric Identifier already exists, <110> found multiple times
L:9 M:283 W: Missing Blank Line separator, <120> field identifier
L:10 M:283 W: Missing Blank Line separator, <130> field identifier
L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:11 M:283 W: Missing Blank Line separator, <160> field identifier
L:12 M:283 W: Missing Blank Line separator, <210> field identifier
L:16 M:283 W: Missing Blank Line separator, <400> field identifier
L:102 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
L:113 M:283 W: Missing Blank Line separator, <400> field identifier
L:156 M:283 W: Missing Blank Line separator, <400> field identifier
L:156 M:283 W: Missing Blank Line separator, <400> field identifier
L:242 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3